

**What is claimed is:**

1. A reflective liquid crystal display having a semiconductor substrate, a plurality of switching elements  
5 formed on the semiconductor substrate and electrically isolated from one another, a plurality of functional films formed one upon another over the switching elements, a plurality of reflective pixel electrodes formed on a top one  
10 of the functional films and electrically isolated from one another to correspond to the switching elements, respectively, storage capacitors provided for the switching elements, each switching element, each reflective pixel electrode connected to the switching element, and each storage capacitor for the switching element constituting a pixel, pixels being arranged  
15 in a matrix on the semiconductor substrate, a transparent substrate, a transparent counter electrode formed on a reverse of the transparent substrate to face the reflective pixel electrodes, and liquid crystals sealed between the reflective pixel electrodes and the counter electrode, the reflective  
20 liquid crystal display comprising:

at least two layers of light blocking metal films that are formed one upon another between the semiconductor substrate and the reflective pixel electrodes with an insulating film being laid on and under each layer of the light blocking metal  
25 films, to block part of read light, which has been made incident from the transparent substrate side to the liquid crystals through the counter electrode and has penetrated the insulating film adjacent to the reflective pixel electrodes through openings formed between adjacent ones of the reflective pixel  
30 electrodes, from reaching the switching elements, any one layer of the light blocking metal films covering the openings formed between adjacent ones of the reflective pixel electrodes, the light blocking metal films in each layer being electrically isolated from one another pixel by pixel, each light blocking

metal film in each layer being electrically connected, through via holes, to each corresponding one of the switching elements, reflective pixel electrodes, and storage capacitors.

5           2. The reflective liquid crystal display of claim 1, wherein

          a storage capacitance value of the storage capacitor in each pixel is the sum of a storage capacitance value of a storage capacitor consisting of a diffused capacitor electrode, an insulating film, a capacitor electrode, and a capacitor electrode contact formed on the semiconductor substrate and a storage capacitance value of a storage capacitor consisting of the two layers of the light blocking metal films and the light blocking insulating film formed between the two layers of the light blocking metal films.

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          3. The reflective liquid crystal display of claim 1, wherein

          at least one of the two layers of the light blocking metal films is made of a material selected from the group consisting of TiN, Ti, and layered TiN/Ti.

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          4. A reflective liquid crystal display having a semiconductor substrate, a plurality of switching elements formed on the semiconductor substrate and electrically isolated from one another, a plurality of functional films formed one upon another over the switching elements, a plurality of reflective pixel electrodes formed on a top one of the functional films and electrically isolated from one another to correspond to the switching elements, respectively, storage capacitors provided for the switching elements, each switching element, each reflective pixel electrode connected to the switching element, and each storage capacitor for the switching element constituting a pixel, pixels being arranged

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in a matrix on the semiconductor substrate, a transparent substrate, a transparent counter electrode formed on a reverse of the transparent substrate to face the reflective pixel electrodes, and liquid crystals sealed between the reflective pixel electrodes and the counter electrode, the reflective liquid crystal display comprising:

at least two layers of light blocking metal films that are formed one upon another between the semiconductor substrate and the reflective pixel electrodes with an insulating film being laid on and under each layer of the light blocking metal films, to block part of color-image read light, which has been made incident from the transparent substrate side to the liquid crystals through the counter electrode and has penetrated the insulating film adjacent to the reflective pixel electrodes through openings formed between adjacent ones of the reflective pixel electrodes, from reaching the switching elements, the insulating film laid between the two layers of the light blocking metal films being a light blocking insulating film whose thickness is set to be equal to or thinner than 400 nm which is the wavelength of B (blue) light contained in the color-image read light.

5. A reflective liquid crystal display having a semiconductor substrate, a plurality of switching elements formed on the semiconductor substrate and electrically isolated from one another, a plurality of functional films formed one upon another over the switching elements, a plurality of reflective pixel electrodes formed on a top one of the functional films and electrically isolated from one another to correspond to the switching elements, respectively, storage capacitors provided for the switching elements, each switching element, each reflective pixel electrode connected to the switching element, and each storage capacitor for the switching element constituting a pixel, pixels being arranged

in a matrix on the semiconductor substrate, a transparent substrate, a transparent counter electrode formed on a reverse of the transparent substrate to face the reflective pixel electrodes, and liquid crystals sealed between the reflective  
5 pixel electrodes and the counter electrode, the reflective liquid crystal display comprising:

at least two layers of light blocking metal films that are formed one upon another between the semiconductor substrate and the reflective pixel electrodes with an insulating film  
10 being laid on and under each layer of the light blocking metal films, to block part of color-image read light, which has been made incident from the transparent substrate side to the liquid crystals through the counter electrode and has penetrated the insulating film adjacent to the reflective pixel electrodes  
15 through openings formed between adjacent ones of the reflective pixel electrodes, from reaching the switching elements, the insulating film laid between the two layers of the light blocking metal films being a light blocking insulating film made of a material selected from the group consisting of SiN  
20 and SiON.